	Application No.	Applicant(s)	
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Notice of Allowability	10/697,548	LEVENE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Sajous Wesner	2676	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS	e
1. This communication is responsive to <u>3/7/05</u> .			
2. The allowed claim(s) is/are <u>52-62</u> .			
3. \boxtimes The drawings filed on <u>20 October 2003</u> are accepted by th	e Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Applicate	ion No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give	itted. Note the attached Exes reason(s) why the oath	KAMINER'S AMENDMENT or NOTICE OF or declaration is deficient.	
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revi	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s)			
1. ☑ Notice of References Cited (PTO-892)	5. Notice of	nformal Patent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interview	Summary (PTO-413),	
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 6/20/05	Paper No 98), 7. ⊠ Examiner	n/Mail Date s Amendment/Comment	
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner	s Statement of Reasons for Allowance	
of Biological Material	9.	•	
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DETAILED ACTION

Remark

This communication is responsive to reply filed on 3/7/2005. Claims 52-62 are presented for examination.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William Haulbrook on 6/17/05.

The application has been amended as follows: cancel claims 1-51.

In claim 52, at line 10, delete "at least one" and at line 13, after ";" insert –or--.

Allowable Subject Matter

2. Claims 52-62 are allowed over the prior art.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

The present invention is directed to a graphics rendering method that is configured to support rendering of complex virtual objects, while still allowing a user to interactively

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paint directly onto the object in object space; and blending the texture while maintaining the interactivity of painting, without creating graphical artifacts.

The best prior art of record: Maillot et al. (US 20030048277) teaches a system that allows a user to paint directly onto a three-dimensional object (see paragraphs 17-19), and after the polygons under the brush to be painted are determined, they can be rendered by mapping the brush texture onto the surface texture. See paragraph 70. And, Kiss (US 5687304) discloses a real-time image generation system for simulating physical paint, and feature modeling with 3-D graphics, wherein a user is allowed to paint directly on three-dimensional objects, and rendering the paint stroke in real-time so as to conform to a surface in 3-D painting. See Kiss at abstract and col. 3, lines 30-46. However, neither Maillot or Kiss or the combination thereof disclose a similar method that comprises the combined steps of: (a) allocating a plurality of texture elements in two dimensional texture space for a plurality of jacks of a virtual object; (b) graphically rendering the allocated texture elements in real time as a user applies at least one brush stroke onto the virtual object as represented in object space, wherein the rendering step comprises creating at least one blended texture that is at least temporarily bound to a graphics application during the rendering; and (b) updating at least one of the blended textures according to the at least one brush stroke applied by the user, wherein the method further comprises at least two of:

(i) using an index corresponding to each of a plurality of jacks of the virtual object to identify texture elements to which surface elements of the virtual object are mapped;

(ii) allocating texture in the texture space for at least one newly-created jack of the virtual object following an object modification; and

(iii) blending a set of texture layers corresponding to a first of a plurality of texture regions in the texture space and binding the blended texture to the graphics application during rendering of the first texture region.

For the aforementioned reason, the limitations of claims 52-62 of the instant application are allowed over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sajous Wesner whose telephone number is **571-272-7791**. The examiner can normally be reached on Mondays thru Fridays between 11:00 and 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on **571-272-7778**. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wesner Sajous -WS-

6/18/05

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